Assignment -2

Python Programming

Assignment Date	21 September 2022
Student Name	Kavin.P
Student Roll Number	714019106044
Maximum Marks	2 Marks

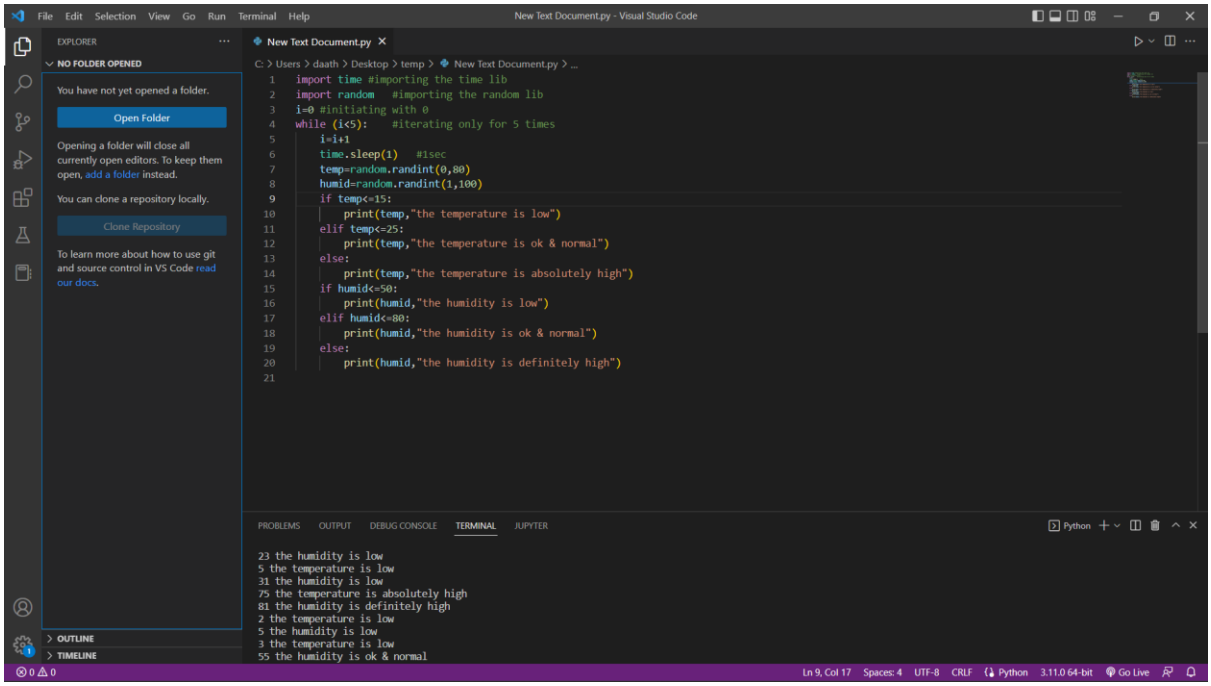
Question-1:

Build a python code. Assume you get temperature and humidity values (generated with random functions to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import time #importing the time lib

import random #importing the random lib

i=0 #initiating with 0

while (i<5): #iterating only for 5 times

i=i+1

time.sleep(1)  #1sec

temp=random.randint(0,80)

humid=random.randint(1,100)

if temp<=15:

print(temp,"the temperature is low")

elif temp<=25:

print(temp,"the temperature is ok & normal")

else:

print(temp,"the temperature is absolutely high")

if humid<=50:

print(humid,"the humidity is low")

elif humid<=80:

print(humid,"the humidity is ok & normal")

else:

print(humid,"the humidity is definitely high")
```

Output:


File Edit Selection View Go Run Terminal Help
New Text Document.py - Visual Studio Code
EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can clone a repository locally.
Clone Repository
To learn more about how to use git and source control in VS Code read our docs.
OUTLINE
TIMELINE
New Text Document.py
C: > Users > daath > Desktop > temp > New Text Document.py > ...
1 import time #importing the time lib
2 import random #importing the random lib
3 i=0 #initiating with 0
4 while (i<5): #iterating only for 5 times
5 i=i+1
6 time.sleep(1) #1sec
7 temp=random.randint(0,80)
8 humid=random.randint(1,100)
9 if temp<=15:
10 print(temp,"the temperature is low")
11 elif temp<=25:
12 print(temp,"the temperature is ok & normal")
13 else:
14 print(temp,"the temperature is absolutely high")
15 if humid<=50:
16 print(humid,"the humidity is low")
17 elif humid<=80:
18 print(humid,"the humidity is ok & normal")
19 else:
20 print(humid,"the humidity is definitely high")
21
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python
23 the humidity is low
5 the temperature is low
31 the humidity is low
75 the temperature is absolutely high
81 the humidity is definitely high
2 the temperature is low
5 the humidity is low
3 the temperature is low
55 the humidity is ok & normal
Ln 9, Col 17 Spaces: 4 UTF-8 CRLF Python 3.11.0 64-bit Go Live